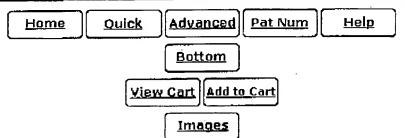
Nov. 30. 2009 2:41PM United States Patent: /195842

USPTO PATENT FULL-TEXT AND IMAGE DATABASE



(1 of 1)

United States Patent Fujimoto, et al.

7,195,842 March 27, 2007

Electrode for use in lithium battery and rechargeable lithium battery

Abstract

In an electrode for a lithium battery having a lithium storing and releasing active thin film provided on a current collector, such as a microcrystalline or amorphous silicon thin film, the electrode is characterized in that the thin film is divided into columns by gaps formed therein in a manner to extend in its thickness direction and that the columnar portions are at their bottoms adhered to the current collector.

Inventors:

Fujimoto; Masahisa (Osaka, JP), Fujitani; Shin (Hirakata, JP), Shima; Masaki (Uji, JP), Yagi; Hiromasa (Nishinomiya, JP), Tarui; Hisaki (Shijyonawate, JP), Kurokawa; Hiroshi (Katano, JP), Matsuta; Shigeki (Hirakata, JP), Domoto; Yoichi (Ikoma, JP), Kato; Yoshlo (Hirakata, JP), Nakajima; Hiroshi (Hirakata, JP), Ikeda; Hiroaki (Hyogo, JP), Asaoka; Kenji (Sumoto, JP), Ohshita; Ryuji (Tokushima, JP)

Assignee:

Sanyo Electric Co., Ltd. (Osaka, JP)

Appl. No.:

10/111,071

Filed:

October 20, 2000

PCT Filed:

October 20, 2000

PCT No.:

PCT/JP00/07292

371(c)(1),(2),(4)

Date:

April 19, 2002

PCT Pub. No.: PCT Pub. Date: WQ01/31720 May 03, 2001

		_
Koreign A	nnliestion	Priority Data
POTEIOR A	robication	rrionity Dat

Oct 22, 1999 [JP]	11/301646
Dec 16, 1999 [JP]	11/357808
Dec 22, 1999 [ЛР]	11/365306
Dec 28, 1999 [JР]	11/374512
Feb 17, 2000 [JP]	2000/039454
Feb 24, 2000 [JP]	2000/047675
Mar 29, 2000 [JP]	2000/090583
Jul 07, 2000 [JP]	2000/207274